# Performance Data Sheet

## AWG4530EXG

## General Information

| | | | |
|---|---|---|---|
| **Model** | AWG4530EXG | **Refrigerant** | R-22 |
| **Test Condition** | ARI | **Performance Test Voltage** | 460V 3~ 60HZ |
| **Return Gas** | 18.3°C (65°F) RETURN GAS | **Motor Type** | 3PH |

## Performance Information

| Evap Temp (°F) | | Condensing Temperature (°F) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | **80** | **90** | **100** | **110** | **120** | **130** | **140** |
| **20** | Btu/h | 23100 | 21600 | 20200 | 18700 | 17300 | 15900 | 14600 |
| | Watts | 1860 | 1960 | 2070 | 2170 | 2280 | 2390 | 2500 |
| | Amps | 2.97 | 3.09 | 3.19 | 3.29 | 3.39 | 3.51 | 3.67 |
| | Lb/h | 284 | 277 | 269 | 260 | 251 | 243 | 235 |
| **25** | Btu/h | 26000 | 24400 | 22900 | 21300 | 19800 | 18300 | 16800 |
| | Watts | 1920 | 2040 | 2160 | 2280 | 2400 | 2530 | 2650 |
| | Amps | 3.02 | 3.16 | 3.28 | 3.39 | 3.52 | 3.65 | 3.82 |
| | Lb/h | 318 | 311 | 303 | 294 | 285 | 276 | 267 |
| **30** | Btu/h | 29100 | 27500 | 25800 | 24100 | 22400 | 20700 | 19100 |
| | Watts | 1970 | 2110 | 2250 | 2390 | 2520 | 2660 | 2800 |
| | Amps | 3.07 | 3.23 | 3.37 | 3.50 | 3.64 | 3.79 | 3.98 |
| | Lb/h | 354 | 347 | 339 | 330 | 320 | 311 | 301 |
| **35** | Btu/h | 32600 | 30700 | 28900 | 27000 | 25100 | 23300 | 21500 |
| | Watts | 2030 | 2180 | 2330 | 2480 | 2630 | 2780 | 2930 |
| | Amps | 3.12 | 3.29 | 3.45 | 3.60 | 3.75 | 3.93 | 4.13 |
| | Lb/h | 394 | 386 | 377 | 368 | 357 | 347 | 336 |
| **40** | Btu/h | 36300 | 34300 | 32200 | 30100 | 28100 | 26000 | 24000 |
| | Watts | 2080 | 2250 | 2410 | 2570 | 2730 | 2890 | 3050 |
| | Amps | 3.17 | 3.36 | 3.53 | 3.70 | 3.87 | 4.06 | 4.28 |
| | Lb/h | 436 | 428 | 418 | 408 | 396 | 385 | 373 |
| **45** | Btu/h | 40300 | 38100 | 35800 | 33500 | 31200 | 28900 | 26600 |
| | Watts | 2130 | 2310 | 2490 | 2660 | 2830 | 3000 | 3170 |
| | Amps | 3.22 | 3.43 | 3.62 | 3.80 | 3.99 | 4.20 | 4.44 |
| | Lb/h | 482 | 473 | 462 | 450 | 438 | 425 | 411 |
| **50** | Btu/h | 44600 | 42200 | 39700 | 37100 | 34500 | 32000 | 29400 |
| | Watts | 2180 | 2380 | 2560 | 2750 | 2920 | 3100 | 3280 |
| | Amps | 3.28 | 3.51 | 3.71 | 3.91 | 4.12 | 4.34 | 4.59 |
| | Lb/h | 531 | 521 | 509 | 496 | 481 | 466 | 451 |
| **55** | Btu/h | 49300 | 46500 | 43800 | 40900 | 38100 | 35200 | 32400 |
| | Watts | 2240 | 2440 | 2640 | 2830 | 3010 | 3200 | 3380 |
| | Amps | 3.35 | 3.59 | 3.81 | 4.02 | 4.25 | 4.48 | 4.75 |
| | Lb/h | 584 | 572 | 558 | 543 | 527 | 510 | 493 |

| COEFFICIENTS | CAPACITY | POWER | CURRENT | MASS FLOW |
|---|---|---|---|---|
| C1 | 2.277834E+04 | 1.177675E+03 | 3.246698E-01 | 2.248267E+02 |
| C2 | 2.943742E+02 | -2.564813E+01 | -1.604017E-02 | 1.249848E+00 |
| C3 | -7.515598E+01 | 9.160166E+00 | 6.667215E-02 | 1.443287E-01 |
| C4 | 8.094708E+00 | 6.518772E-02 | -1.758194E-04 | 8.512702E-02 |
| C5 | 1.729113E+00 | 5.781295E-01 | 4.306087E-04 | 5.291606E-02 |
| C6 | -7.143799E-01 | -7.411563E-02 | -6.224047E-04 | -1.338573E-02 |
| C7 | 1.783065E-02 | 1.042048E-03 | 2.357111E-06 | 1.973001E-04 |
| C8 | -5.359485E-02 | -2.480950E-03 | -6.408949E-07 | -5.503762E-04 |
| C9 | -7.887765E-03 | -6.961918E-04 | -2.029433E-07 | -1.415064E-04 |
| C10 | 3.046743E-03 | 2.784562E-04 | 1.999833E-06 | 4.714080E-05 |

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature